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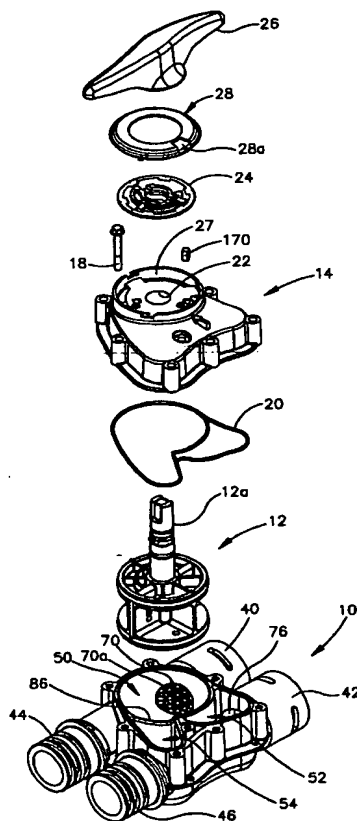
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[Continued on next page]

(54) Title: BYPASS VALVE



(57) Abstract: A control valve usable as a bypass/diverter valve for controlling the flow of fluid from a source to a fluid treatment device or other water handling appliance, such as a water softener. The valve has a housing that includes first and second inlet/outlet fittings and first and second fluid transfer fittings and defines a valve chamber in fluid communication with the fittings. A valve member having a valuing portion is rotatably received within the valve chamber. The valuing portion includes a circular base and a disc member spaced above the circular base with a diametral wall extending therebetween which, together define a first fluid flow path through the valve when the valuing portion is in predetermined positions within the valve chamber. The valve chamber includes a wall opening that communicates with a region of the valve chamber above the disc member. The disc member includes an apertured portion for communicating the region of the valve chamber above the disc member with a valuing member region defined between the disc member and a base, such that a second flow path is established by the valuing member region, the disc member apertures, the valve chamber region above the disc member and the wall opening in the valve chamber. The second flow path is isolated from the first flow path. A movement control member in cooperation with a moveable stop pin establishes four different ranges of motion for the valuing member in order to establish four different flow configurations for the control valve.



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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,076,554 A (JENSEN et al) 20 June 2000 (20.06.2000), See Figure 3, elements 32, 36.	1

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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